

What is claimed is:

1. An air conditioning system for a vehicle having a refrigerant circuit (1) which comprises an electrically driven compressor (2), a condenser (4), an expansion valve (10) and a latent cold storage (12) from which heat is drawn by means of the refrigerant circuit (1), and having means for cooling air which is formed such that heat is drawn from the air and the heat is supplied to the latent cold storage (12).
2. The air conditioning system according to claim 1, wherein the means for cooling air comprises a refrigerant circuit (30) which comprises a pump (34), the latent cold storage (12) and a heat exchanger (32) by means of which heat is drawn from the air which is then supplied to the latent cold storage (12).
3. The air conditioning system according to claim 2, wherein a blower (32) is assigned to the heat exchanger (32) which influences an air flow through the heat exchanger (32) and simultaneously influences the air flow through a heating element.
4. The air conditioning system according to claim 3, wherein the heating element is a heating heat exchanger (44), wherein a fluid flows through the latter which can be heated by means of a fuel heating device (46).
5. The air conditioning system according to claim 1, wherein the latent cold storage (12) is disposed such that the air to be cooled flows through the latent cold storage (12) and, in this way, is cooled.
6. The air conditioning system according to claim 5, wherein the refrigerant circuit (1) comprises a plurality of latent cold storages (12).
7. The air conditioning system according to any of the preceding claims, wherein a generator (24) is assigned thereto which is driven by a driving shaft (26) of a drive (28) of

the vehicle and, thus, provides the electrical energy for driving the electrical driven compressor (2).